## AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. (Currently Amended) A process for producing a maraging steel excellent in fatigue characteristics which comprises:

melting [[a]] steel having a composition consisting essentially of, in % by weight:

C: 0.01% or less,

Ni: 8-19%,

Co: 8-20%,

Mo: 2-9%,

Ti: 0.1-2%,

A1: 0.15% or less,

N: 0.003% or less,

O: 0.0015% or less,

and the balance Fe and the Ti component segregation ratio and the Mo component segregation ratio in its structure being 1.3 or less each;

casting the molten steel to obtain a steel ingot;

hot forging the steel ingot at a forging ratio of at least 4 to obtain a

forged piece;

04/17/2007 EFLORES 08000009 10811274 01 FC:1751 120.00 OF then submitting <u>said forged piece</u> to soaking treatment by keeping the forged piece one or more times at a temperature range of 1100-1280°C for a total hot holding time of 10-100 hours, to make the Ti component segregation ratio and the Mo component segregation ratio in a structure of said forged piece be 1.3 or less each; and

then plastic working the forged piece.

## 2. (Cancelled).

3. (Currently Amended) A process for producing a maraging steel excellent in fatigue characteristics which comprises[[;]]:

melting [[a]] steel having a composition consisting essentially of, in % by weight:

C: 0.01% or less,

Ni: 8-19%,

Co: 8-20%,

Mo: 2-9%,

Ti: 0.1-2%,

A1: 0.15% or less,

N: 0.003% or less,

O: 0.0015% or less,

and the balance Fe and containing a nonmetallic inclusion in its structure having a size of 30 µm or less when the size of the nonmetallic inclusion is expressed by the diameter of a corresponding circle taking the circumferential length of the nonmetallic inclusion to be the circumference of the corresponding circle;

casting the molten steel to obtain a steel ingot of a taper  $Tp = (D1 - D2) \times 100/H$  of 5.0-25.0%, a height-diameter ratio Rh = H/D of 1.0-3.0, and a flatness ratio B = W1/W2 of 1.5 or less, taking the diameter of a corresponding circle with a circumference corresponding to the circumferential length of the top of the steel ingot as D1, the diameter of a corresponding circle with a circumference corresponding to the circumferential length of the bottom of the steel ingot as D2, the height of the steel ingot as H, the diameter of a corresponding circle with a circumference corresponding to the circumferential length of the steel ingot at a location of H/2 as D, and the length of the long side and length of the short side of the steel ingot at a location of H/2 as W1 and W2, respectively;

hot forging the steel ingot at a forging ratio of at least 4 for to obtain a forged piece;

then submitting <u>said forged piece</u> to soaking treatment by keeping the forged piece one or more times in a temperature range of 1100-1280°C for a total hot holding time of 10-100 hours <u>to make the Ti component segregation ratio and the Mo</u>

component segregation ratio in a structure of said forged piece be 1.3 or less each; and

then plastic working the forged piece to make the size of [[a]] nonmetallic inclusion inclusions in the steel be 30 µm or less when the size of the nonmetallic inclusions inclusion is expressed by the diameters diameter of [[a]] corresponding circles circle taking the circumferential length lengths of the nonmetallic inclusions inclusion to be the circumferences circumference of the corresponding circles circle.

- 4. (New) The process according to claim 1, wherein said process does not include arc remelting.
- 5. (New) The process according to claim 3, wherein said process does not include arc remelting.
- 6. (New) The process according to claim 1, wherein said total hot holding time is 20-100 hours.
- 7. (New) The process according to claim 3, wherein said total hot holding time is 20-100 hours.